GARIYSIYAN, D.Kh.

Analysis of the efficiency of the stroke of a crank press in hot upsetting of cylindrical billets. Izv.AN AN Arm.S.R.Ser.tekh.nauk 18 no.4:63-65 '65. (MIRA 18:9)

L 63325-65

ACCESSION NR: AP5017614

BXT/EEL-2/EWT(d)/T/EWP(I)   Pg-4/Pk-4/Pq-4  IJP(c)   GG/BB
UR/2582/65/000/014/0245/0266

43
39
B

AUTHOR: Abelyan, N. G. (Yerevan); Melik-Adamyan, Zh. E. (Yerevan); Bazmadzhyan, R. A. (Yerevan); Gabrielyan, E. P. (Yerevan); Karaustayan, T. V. (Yerevan); Ter-Mikaelyan, T. M. (Yerevan)

TITLE: An algorithm for Armenian-Russian machine translation. II (Realization of the program)

SOURCE: Problemy kibernetiki, no. 14, 1965, 245-266

16C

TOPIC TAGS: translation algorithm, machine translation, sentence coding

ABSTRACT: This is the second part of a paper describing an algorithm for Armenian-Russian machine translation developed at the Vychislitel'nyy Tsentr (Computer Center) AN Arm.SSR and YerGU. It describes the realization of the program of the algorithm on an automatic digital computer having a 2048-cell opera- tive and 4096-cell outer memory. The basic principles of all the concepts uti- lized are due to O. S. Kulagina (Problemy kibernetiki, no. 2, 1959, 289-302). An outline of the algorithm's structure and the method of sentence coding is followed by a description of the scheme of the algorithm and of all the auxiliary information. A brief summary of the master and interpretation programs is also

Card  1/2

Card  2/2

ABELYAN, N.G. (Yerevan); BAZMADZHYAN, R.A. (Yerevan); GABRIYELYAN, E.P.
    (Yerevan); MELIK-ADAMYAN, Zh.E. (Yerevan); KARAUSTAYAN, T.V.
    (Yerevan); TER-MIKAELYAN, T.M. (Yerevan)

Algorithm for Armenian-to-Russian machine translating. Part 2:
Program implementation. Probl. kib. no.14:245-266 '65.

(MIRA 19:1)

1. Submitted July 12, 1963.

GABRIYELYAN, E.S.

Effect of quateleron on reflexes from interoceptors. Zhur.
eksp. i klin. med. 3 no.3:11-21 '63.          (MIRA 17:1)

1. Kafedra farmakologii Yerevanskogo meditsinskogo instituta.

GABRIELYAN, E.TS.

New and critical species of Armenian flora.   Izv. AN Arm.
SSR. Biol. nauki 17 no.5:77-84  My '64.                (MIRA 17:9)

1. Botanicheskiy institut AN Armyanskoy SSR.

GABRIYELYAN, G., inzh.

Problem of fish protection in open and mechanical water
intake installations.  Prom.Arm. 4 no.4:34-38 Ap '61.
(MIRA 14:6)

(Pumping stations--Equipment and supplies)
(Fish culture)

GABRIYELYAN, G.A.; ROGOVIN, Z.A.

Synthesis of a copolymer of acrylonitrile and diketone.  Khim.
volok. no.5:2-5  '63.                                    (MIRA 16:10)

1. Moskovskiy tekstil'nyy institut.

GABRIYELYAN, G.A.; ROGOVIN, Z.A.

Chemical transformations of an acrylonitrile copolymer with diketene.
Khim.volok no.6:2-5 '63.
(MIRA 17:1)

1. Moskovskiy tekstil'nyy institut.
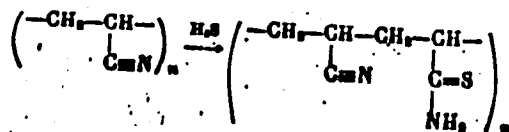
ACCESSION NR: AP4037270

AUTHORS: Gabriyelyan, G. A.; Rogovin, Z. A.

TITLE: Synthesis of thiomide containing polymer analogs of polyacrylonitrile

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 5, 1964, 769-770

TOPIC TAGS: polyacrylonitrile, polyacrylonitrile polymer analog, acrylonitrile diketone copolymer, polyacrylonitrile hydrogen sulfide reaction, polyacrylonitrile thiomide group, acrylonitrile diketone thioamide group

ABSTRACT: The synthesis of a new polymer analog has been achieved by the inter-action of polyacrylonitrile with hydrogen sulfide according to the scheme

$$\left(\begin{array}{c} -CH_2-CH- \\ | \\ C\equiv N \end{array}\right)_n \xrightarrow{H_2S} \left(\begin{array}{cc} -CH_2-CH-CH_2-CH- \\ | \qquad | \\ C\equiv N \qquad C=S \\ | \\ NH_2 \end{array}\right)_n$$
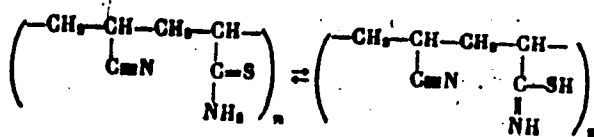
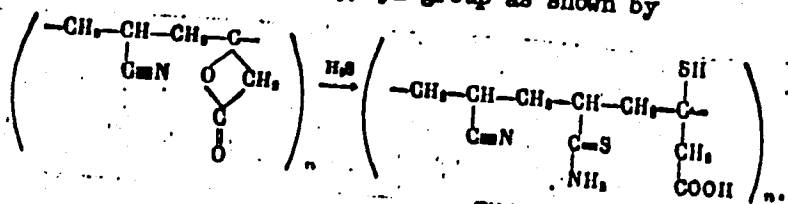The formation of thioamides was confirmed by the presence in infrared spectra of

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ACCESSION NR: AP4037270

an absorption band at 1624 cm$^{-1}$. The thioamide is in a state of tautomeric equilibrium with the thiol form

$$\left(\begin{array}{c} -CH_2-CH-CH_2-CH- \\ | \quad\quad | \\ C\equiv N \quad C-S \\ | \\ NH_2 \end{array}\right)_n \rightleftarrows \left(\begin{array}{c} -CH_2-CH-CH_2-CH- \\ | \quad\quad | \\ C\equiv N \quad C-SH \\ \| \\ NH \end{array}\right)_n$$

The presence of thiol groups was confirmed by their reaction with an aqueous iodine solution. In another experiment, a 5% solution of acrylonitrile-diketone copolymer was acted upon with hydrogen sulfide. This resulted in the formation of a copolymer containing thioamide and sulfhydryl group as shown by

$$\left(\begin{array}{c} -CH_2-CH-CH_2-C- \\ | \quad\quad / \backslash \\ C\equiv N \quad O \quad CH_3 \\ | \\ C \\ \| \\ O \end{array}\right)_n \xrightarrow{H_2S} \left(\begin{array}{c} SH \\ | \\ -CH_2-CH-CH_2-CH-CH_2-C- \\ | \quad\quad | \quad\quad | \\ C\equiv N \quad C-S \quad CH_3 \\ | \quad\quad | \\ NH_2 \quad COOH \end{array}\right)_{n}$$

Card 2/3

ACCESSION NR: AP4037270

It was found that at 50C about 50% of the nitrile groups are converted into thioamide or thiol groups in a period of 1 to 2 hours. The modified polyacryloni- trile and the acrylonitrile-diketone copolymers are soluble in acetone. Thanks are expressed to Yu. N. Shenker for the analysis of infrared spectra. Orig. art. has: 1 graph and 3 formulas.

ASSOCIATION: Moscovskiy tekstil'hyy institut (Moscow Textile Institute)

SUBMITTED: 26Nov62

SUB CODE: MT

DATE ACQ: 09Jun64

NO REF SOV: 001

ENCL: 00

OTHER: 003

Card 3/3

L 52103-65    EWT(n)/EWP(j)/T    Pc-4    RM

ACCESSION NR: AP5015273                                    UR/0286/65/000/009/0052/0052

AUTHORS: Konkin, A. A.; Smol'nikova, L. G.; Gabriyelyan, G. A.

TITLE: A method of processing polyamide or a polyamide fiber. Class 29, No. 170611

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 52

TOPIC TAGS: polyamide, fiber, hydrogen, amide, diketene

ABSTRACT: This Author Certificate presents a method for processing polyamide or a polyamide fiber by reagents interacting with hydrogen of the amide group of the polyamide. To increase the heat resistance of polyamides and products made of them, diketene or a diketene solution is used as the processing reagent.

ASSOCIATION: none

SUBMITTED: 13Feb64              ENCL: 00                    SUB CODE: OC

NO REF SOV: 000                 OTHER: 000

Card 1/1

AUTHOR: Komnova, N. E.; Gabriyelyan, G. A.; Rogovin, Z. A.;    *34*
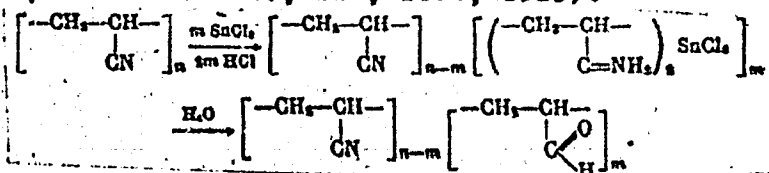Konkin, A. A.                                                  *B*

TITLE: New preparative method for an acrylonitrile-acrolein copolymer
by the method of conversion to polymer analogs

SOURCE: Vysokomolekulyarnyye soyedeniya, v. 7, no. 4, 1965, 756

TOPIC TAGS: copolymer, polyacrylonitrile, acrylonitrile acrolein
copolymer

ABSTRACT: The feasibility has been shown of preparing an acrylo-
nitrile-acrolein copolymer by conversion of some of the nitrile groups
in polyacrylonitrile to aldehyde groups by the Stephen method
(O. Stephen, J. Chem. Soc., 127, 1874, 1925):

$$\left[\begin{array}{c}-CH_2-CH-\\ \quad\quad |\\ \quad\quad CN\end{array}\right]_n \xrightarrow[tm\ HCl]{m\ SnCl_4}\left[\begin{array}{c}-CH_2-CH-\\ \quad\quad |\\ \quad\quad CN\end{array}\right]_{n-m}\left[\left(\begin{array}{c}-CH_2-CH-\\ \quad\quad |\\ \quad\quad C=NH_2\end{array}\right)SnCl_4\right]_m$$

$$\xrightarrow{H_2O}\left[\begin{array}{c}-CH_2-CH-\\ \quad\quad |\\ \quad\quad CN\end{array}\right]_{n-m}\left[\begin{array}{c}-CH_2-CH-\\ \quad\quad |\\ \quad\quad C\diagdown^O_H\end{array}\right]_m$$

Card 1/2

I, 42130-65
ACCESSION NR: AP5011258                                    $\mathcal{O}$

It is noted that previously such a copolymer was preparable only by
starting from the monomers. The reaction was carried out both on
polyacrylonitrile and polyacrylonitrile fiber in dioxane at 60—100C.
The amount of $SnCl_2$ used was 0.6 to 1.5 mol/repeat unit of polyacrylo-
nitrile. Copolymers containing up to 20 mol% aldehyde groups were
prepared. Orig. art. has: 1 formula.                           (SM)

ASSOCIATION: none

SUBMITTED: 18Sep64          ENCL: 00            SUB CODE: OC,GC

NO REF SOV: 000             OTHER: 002         ATD PRESS: 3239

Card 2/2

GABRIYELYAN, G.A.; STANCHENKO, G.I.; ROGOVIN, Z.A.

Production and properties of fibers from the copolymer of
acrylonitrile with diketene. Khim. volck. no.6:13-16 '65.
(MIRA 18:12)

1. Moskovskiy tekstil'nyy institut.  Submitted December 8,
1964.

L 37201-66     EWT(m)/EWP(j)/T   IJP(c)   RM/WW

ACC NR: AP6012415     (A)     SOURCE CODE: UR/0183/65/000/006/0013/0016

AUTHOR: Gabriyelyan, G. A.; Stanchenko, G. I.; Rogovin, Z. A.

ORG: MTI

TITLE: Preparation and properties of fibers from acrylonitrile-diketene copolymer

SOURCE: Khimicheskiye volokna, no. 6, 1965, 13-16

TOPIC TAGS: synthetic fiber, acrylonitrile, copolymerization, chemical reaction, tensile strength, rupture strength, elongation

ABSTRACT: Fibers were formed by the wet method from solutions of acrylonitrile-diketene copolymers in dimethylformamide. Copolymers of 40,000-45,000 molecular weight and containing 4-6 mol % diketene on the weight of the copolymer gave most stable solutions from which fibers having 7-8% elongation were formed. Different types of reactive groups were introduced by treating the fibers with hydroxylamine or hexamethylenediamine (HMDA). Introduction of amine or hydroxylamine groups enabled the fibers to be dyed with acid dyes. Chemically dyed fibers were obtained by reacting the copolymer fibers with HMDA and dyes containing amino groups. Subsequent treatment of acrylonitrile-diketene copolymer fibers with HMDA significantly increased the zero-

UDC: 677.745.32

Card 1/2

GABRIYELYAN, G.G.

Effect of temperature on the metabolism of amino acids and sugars
in various organs of onion.  Izv. AN Arm. SSR. Biol. nauki 15 no.1:
25-39 Ja '62.                                              (MIRA 15:2)
              (PLANTS—METABOLISM)    (ONIONS)

GABRIYELYAN, G.G.

Changes in the activity of some oxidizing enzymes during the growth of the onion (Allium cepa L.). Izv.AN Arm.SSR.Biol.nauki 15 no.7:33-42 Jl '62.                                    (MIRA 15:11)

1. Botanicheskiy institut AN Armyanskoy SSR.
                   (ONIONS)    (ENZYMES)

KAZARYAN, V.O.; GABRIYELYAN, G.G.

Identity of amino acid metabolism in bulbaceous plants during the
formation of flowers and aerial bulbils. Dokl. AN Arm. SSR 37 no.
1:39-42 '63.                                    (MIRA 16:11)

1. Botanicheskiy institut AN Armyanskoy SSR. Predstavelno akademi-
kom AN Armyanskoy SSR G.Kh.Bunyatyanom.

GABRIYELYAN, G.K.

Study of slope denudation by an experimental method and some
of its results.   Nauch.trudy Erev.un. 58:81-96 '56.    (MLRA 10:7)

1. Kafedra fizicheskoy geografii.
                        (Erosion)

GABRIYELYAN, G.K.

Fulgurites in Armenia. Izv. AN Arm. SSR. Ser. geol. i geog. nauk 10 no.3: 67-70 '57.               (MIRA 10:12)

1. Armyanskoye Geograficheskoye obshchestvo (filial Vsesoyuznogo geografi- cheskogo obshchestva) pri AN ArmSSR.
                    (Armenia--Fulgurites)

GABRIYELYAN, G.K.

Density of relief dissection in the Armenian S. S. R. Izv. AN
Arm. SSR. Geol. i geog. nauki 13 no.3/4:131-135 '60.

(MIRA 13:9)

(Armenia--Morphology)

GABRIYELYAN, G.K., kand.geograf.nauk

Chingils of the Armenian mountain area.  Priroda  50  no.4:99-100
Ap '61.                                              (MIRA 14:4)

1. Yerevanskiy gosudarstvennyy universitet.
(Armenia—Rocks)

GABRIYELYAN, G.K.

Concerning the geography of the Armenian Highland.  Izv.AN Arm.
SSR. Geol.i geog.nauki 14 no.5:43-53 '61.        (MIRA 15:1)

1.  Yerevanskiy gosudarstvennyy universitet, kafedra fizicheskoy
geografii.
                (Armenian Highland--Geography)

GABRIYELYAN, G.K.

Permafrost in the Armenian S.S.R.  Izv, AN Arm. SSR. Geol.i geog.
nauki 15 no.2:59-68 '62.                                   (MIRA 15:5)

1.  Yerevanskiy gosudarstvennyy universitet.
            (Armenia--Frozen ground)

GABRIYELYAN, G.K.

Relief gradients in the Armenian S.S.R. Izv.AN Arm. SSR. Geol. i geog.nauki 16 no.1:59-62 '63.

(MIRA 16:5)

1. Yerevanskiy gosudarstvennyy universitet.
(Armenia--Landforms)

GABRIYELYAN, G.K.; PETROSYAN, A.P.

Biogenic formation of the carbonate crust on volcanic rocks
of the Armenian S.S.R.   Dokl. AN Arm. SSR 37 no.2:107-112 '63.
(MIRA 17:2)

1. Predstavleno akademikom AN Armyanskoy SSR G.S. Davytyanom.

GABRIYELYAN, G.K.

Ancient glaciation of the Vardenis Range. Biul. MOIP. Otd.
geol. 38 no.5:86-90  S-0 '63.                    (MIRA 17:1)

GABRIYELYAN, G.K.; KHACHATRYAN, A.G.

Showers in the Ararat Plain as a factor in the formation of
mudflows. Izv. AN Arm. SSR. Nauki o zem. 7 no.1:35-40 '64.
(MIRA 17:6)

1. Yerevanskiy gosudarstvennyy universitet i Upravleniye
gidrometeorologicheskoy sluzhby pri Sovete Ministrov
Armyanskoy SSR.

GABRIYELYAN, G.K.

Solubility of the effusive rocks of the Armenian S.S.R.  Dokl.
AN Arm. SSR 39  no. 2:113-115  '64.                    (MIRA 17:9)

1. Yerevanskiy gosudarstvennyy universitet. Predstavleno
akademikom AN ArmSSR K.N.Parfengol'tsem.

GABRIYELYAN, G.K.

Chemical weathering of effusive rocks in the Volcanic highland of
the Armenian S.S.R. Izv. AN Arm. SSR. Nauki o zem. 18 no.4:46-55
'65.                                                    (MIRA 18:7)

1. Yerevanskiy gosudarstvennyy universitet.

GABRIYELYAN, G.K.; PETROSYAN, A.P.; MATEVOSYAN, F.A.

Biogenic formations of the carbonate weathering surface of the
volcanic highland in the Armenian S.S.R. Izv. AN Arm. S.S.R. Biol.
nauki 18 no.7:45-55  Jl '65.                         (MIRA 18:8)

1. Institut mikrobiologii AN ArmSSR i Yerevanskiy gosudarstvennyy
universitet.

GABRIYELYAN, G.V.

Results of seismic logging in the Oktemberian and Erivan
regions.  Izv. AN Arm. SSR. Nauki o zem. 18 no.3/4:54-62  '65.
                                        (MIRA 18:9)
1. Gosudarstvennyy proizvodstvennyy geologicheskiy komitet
Armyanskoy SSR.

*GABRIELYAN, M.S.*

GABRIELYAN, M. S.

"Dzhavakhetskiye Geese and Methods of Improving Them."  Cand
Agr Sci, Yerevan Zooveterinary Inst, Min Higher Education
USSR, Yerevan, 1954.  (KL No 9, Feb 55)

SO:  Sum. No 631, 26 Aug 55-Survey of Scientific and Technical
     Dissertations Defended at USSR Higher Educational Institutions
     (14)

ACCESSION NR: AP4040574                          S/0040/64/028/003/0493/0501

AUTHOR: Gabriyelyan, M. S. (Sverdlovsk)

TITLE: Stabilization of unstable motion of mechanical systems

SOURCE: Prikladnaya matematika i mekhanika, v. 28, no. 3, 1964, 493-501

TOPIC TAGS: motion stabilization, unstable motion, mechanical system, controlling
force, holonomic system, controllability, optimal stabilization, curvilinear
coordinates, perturbed motion, functional minimization

ABSTRACT: The author studies a mechanical system whose states are described by
curvilinear coordinates $q_i(t)$ $(t \geq 0; i = 1,\ldots,n)$. The system is affected by a
controlling force u related to the curvilinear coordinates $q_i$ and the rates $dq_i/dt$
by the controls

$$\frac{d}{dt}\frac{\partial T}{\partial q_i'} - \frac{\partial T}{\partial q_i} = Q_i(t, q_1, \ldots, q_n, u) \qquad (i = 1, \ldots, n) \qquad (1)$$

where $T$ is the kinetic energy of the system, $Q_i$ is the generalized force corre-
sponding to the $q_i$ coordinate. The motion $q_i = q_i^0(t)$ is given, which follows from
(1) for $u = 0$ and certain initial conditions

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ACCESSION NR: AP4040574

$$q_i{}^o(0) = q_{i_0} = \text{const}, \qquad (dq_i{}^o / dt)_{t=0} = q_{i_0}^{(1)} = \text{const} \ . \qquad (2)$$

It is assumed that the motion $q_i = q_i^o(t)$ is unstable in the sense of Lyapunov. The problem is the determination of the force u which stabilizes the motion $q_i^o(t)$. The author sets up the equation of perturbed motion in a neighborhood of $q_i^o(t)$. If $s_i = q_i - q_i^o(t)$, then (1) takes the form

$$\frac{d}{dt}\frac{\partial T}{\partial s_i'} - \frac{\partial T}{\partial s_i} = S_i(t, s_1, \ldots, s_n, u) \quad (i = 1, \ldots, n) \qquad (3)$$

which, for u = 0, have solution $s_i = 0$. Two problems are considered. The first is to find a function

$$u = u(t, s_1, \ldots, s_n, s_1', \ldots, s_n') \qquad (4)$$

so that the motion $s_i = 0$ will be asymptotically stable in the sense of Lyapunov on the strength of (3) and (4). The second problem is to find a function u such that the motion $s_i(t) = 0$ will be asymptotically stable on the strength of (3), (4) and so that for $s_i(t)$, $u(t)$, system (3), (4) will minimize the functional

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ACCESSION NR: AP4040574

$$I = \int_{0}^{\infty} G\left[t, s_1(t), \ldots, s_n(t), s_1'(t), \ldots, s_n'(t), u(t)\right]dt \quad (5)$$

The author derives sufficient conditions for controllability and stabilizability in one of the coordinates. He explains the conditions of observability of motion of the system in one coordinate or at one rate. He investigates the problem of optimal stabilization for an incomplete inverse relation. "The author is grateful to N. N. Krasovskiy for his valuable advice." Orig. art. has: 36 formulas.

ASSOCIATION: none

SUBMITTED: 06Dec63          DATE ACQ: 19Jun64                 ENCL: 00

SUB CODE: ME,MA             NO REF SOV: 013                   OTHER: 001

Card 3/.

L 17667-65          BXP/EWT(1)   IJP(c)          S/0040/64/028/005/0801/0811
ACCESSION NR:  AP4046264

AUTHOR:  Gabriyelyan, M. S.; Krasovskiy, N. N.

TITLE:  On the problem of stabilization of a mechanical system

SOURCE:  Prikladnaya matematika i mekhanika, v. 28, no. 5, 1964,
801-811

TOPIC TAGS:  mechanical system stabilization, holonomic system,
system control, regulator analytic construction dissipative force,
gyroscope force, asymptotic stability

ABSTRACT:  A study was made of the stabilization of a holonomic me-
chanical system by additional forces in the neighborhood of the state
of equilibrium.  The motion of the system is described by equations

$$\frac{d}{dt}\frac{\partial T}{\partial q_i'} - \frac{\partial T}{\partial q_i} = Q_i\,(t,\, q_1,\, \ldots,\, q_n,\, u) \qquad (i = 1, \ldots, n) \tag{1}$$

where $q_i$ are curvilinear coordinates, T is the kinetic energy, $Q_i$
are generalized forces, and n is the control action under consider-

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L 17667–65
ACCESSION NR:   AP4046264                                              $\oslash$

ation.  Under the assumptions that (1) has a solution $q_i - 0$ at
$u \equiv 0$ and that its linear approximation is stationary and is of the
form

$$\sum_{j=1}^{n} a_{ij} q_j^{\cdot} = \sum_{j=1}^{n} b_{ij} q_j + b_i u \qquad (i = 1,..., n) \qquad\qquad (2)$$

where $a_{ij}$, $b_{ij}$, $b_i$ are constants, the form $\Sigma a_{ij} q_i q_j$ is positive
definite and $b_{ij} = b_{ji}$ (such a linear system is called conservative), the
following problem of analytic construction of optimal regulators is
formulated;  to find a control function u depending only on the
velocities $q_1'$, $q_2'$...$q_n'$, which minimizes a certain performance
functional and assures the asymptotic stability of the motion $q_i - 0$.
Various cases are analyzed and conditions are established under
which the solution of this problem is possible.  The problem of the
stabilization of motion by dissipative forces is analyzed and its
connection with the problem of the analytic construction of optimal
regulators is established.  It is shown that conditions for stabi-
lization by dissipative forces coincide with general conditions for
control and stabilization of the system.  The effects of dissipative

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L 17667-65
ACCESSION NR:    AP4046264                                          $O$

and gyroscopic forces upon the controllability, observability, and
stability of conservative mechanical systems in the neighborhood of
the state of equilibrium are studied.  It is shown that by proper
selection of dissipative and gyroscopic forces the quality of con-
trollability, observability, and stability can be improved in many
cases.  Orig. art. has:  49 formulas.

ASSOCIATION:  none

SUBMITTED:  18May64            ENCL:  00        SUB CODE:  MA

NO REF SOV:  016               OTHER:  002

Card    3/3

GABRIYELYAN, M.S.

Stabilization of a mechanical system with a single cyclic coordinate.
Izv. AN Arm. SSR. Ser. fiz.-mat. nauk 18 no.6:35-41 '65.
(MIRA 19:1)

1. Institut matematiki i mekhaniki AN Armyanskoy SSR.

L 30380-66    EEC(k)-2/EWP(k)/EWT(d)/EWP(h)/EWP(l)/FSS-2/EWP(v)    BC

ACC NR: AP6012541                    SOURCE CODE: UR/0040/66/030/002/0226/0235

51
B

AUTHOR: Gabriyelyan, M. S. (Yerevan)

ORG: Institute of Mathematics and Mechanics, Academy of Sciences, Armenian SSR (Institut matematiki i mekhaniki AN Armyanskoy SSR)

TITLE: Effect of dissipative and gyroscopic forces on the controllability and observability of mechanical systems

SOURCE: Prikladnaya matematika i mekhanika, v. 30, no. 2, 1966, 226-235

TOPIC TAGS: mechanics, gyroscope motion equation, friction, ordinary differential equation, ~~control theory~~ MOTION MECHANICS

ABSTRACT: The effect of dissipative and gyroscopic forces on the controllability of a conservative mechanical system is analyzed. For the holonomic conservative mechanical system, controlled by a single action u, the linear equation

$$y_i' = \lambda_i y_i + \alpha_i u \qquad (i = 1,\ldots, n)$$

is given. Under the conditions where the above system is not fully controllable, two theorems are proved to show the necessary and sufficient conditions for the existence of a dissipative force that will make the above system fully controllable: Theorem 1: If among the numbers $\lambda_i$ at least two are equal to zero, or, in one system of the above equation, $\lambda_i = \alpha_i = 0$, then the system cannot be fully controlled under the

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L 30580-66

ACC NR: AP6012541

action u, even in the presence of dissipative or gyroscopic forces.  Theorem 2: To make a not-fully controllable system fully controllable under a dissipative force, it is sufficient that

$$\lambda_i \neq \lambda_j, \quad \alpha_i \neq 0 \quad (i,j = 1,\dots, k, \; i \neq j)$$

$$\lambda_i \neq 0 \quad (i = 1,\dots, k-1, \; k+1,\dots, n).$$

The controllability is shown to improve if a gyroscopic force is added to the above system, defined by

$$y_i^{\cdot} = \lambda_i y_i + \alpha_i u \quad (i = 1,\dots, k), \qquad y_i^{\cdot} = \lambda_i y_i \quad (i = k+1,\dots, n).$$

Orig. art. has: 44 equations.

SUB CODE: 20,12    /  SUBM DATE: 30Aug65/  ORIG REF:  005

Card 2/2   CC

L 37098-66     EWT(d)    IJP(c)

ACC NR:    AP6018735                 SOURCE CODE:   UR/0022/65/018/006/0035/0041

$2.0$

$B$

AUTHOR: Gabriyelyan, M. S.

ORG: Institute of Mathematics and Mechanics, AN Armenian SSR (Institut matematiki i mekhaniki AN Armyanskoy SSR)

TITLE: Stabilization of a mechanical system having a single cyclic coordinate

SOURCE: AN ArmSSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, v. 18, no. 6, 1965, 35-41

TOPIC TAGS: motion stability, coordinate, motion equation, asymptotic solution

ABSTRACT: The author considers the control signal that must be applied to stabilize a motion of a holonomic mechanical system with a single cyclic coordinate, when the control signal is a scalar quantity. The equation of the system is described by the generalized equation

$$\frac{d}{dt}\frac{\partial T}{\partial \dot{q}_i} - \frac{\partial T}{\partial q_i} = Q_i(q_1, \cdots, q_n, u, t) \quad (i = 1, \cdots, n).$$

having a solution $q_i = 0$ when $u = 0$, where u is the external control signal. If $q_1$ is the cyclic coordinate, it is assumed that the linear approximation of the equation is stationary and is of the form

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L 37098-66

ACC NR: AP6018785

$$\sum_{j=1}^{n} a_{1j} q_j' = b_1 u, \quad \sum_{j=1}^{n} {}^r a_{ij} q_j' = \sum_{j=2}^{n} b_{ij} q_j + b_i u \quad (i = 2, \cdots, n).$$

The problem consists of finding a function

$$u = \sum_{i=1}^{n} p_{2i-1} q_i + \sum_{i=1}^{n} p_{2i} q_i'$$

such that the motion $q_i = 0$ is asymptotically stable. Conditions for the solution of this problem are found. Several theorems concerning the solvability of the initial problem and observability of stationary solution are proved. Orig. art. has: 25 formulas.

SUB CODE: 20, 12/    SUBM DATE: 23Mar65/    ORIG REF: 011

Card 2/2

GABRIYELYAN, R., inzh.

    Moveable gravel grading unit. Avt.dor. 24 no.6:3 of cover Je '61.
                                (MIRA 14:7)

             (Gravel--Grading)

GABRIYELYAN, R., inzh.

Combined boring unit.  Avt.dor.  26  no.9:30  S  '63.   (MIRA 16:10)

GABRIYELYAN, R.A., inzh.

Mechanized lubrication of dump-truck bodies.  Avt. dor. 23 no. 12:29
D '60.                                                  (MIRA 13:12)
                    (Dump trucks--Lubrication)

GABRIYELYAN, R. B.

In connection with the translations of Darwin's works [in Armenian].
Izv. AN Arm.SSR. Biol. i sel'khoz. nauki 2 no.6:603-608 '49.(MIRA 9:8)
(DARWIN, CHARLES ROBERT, 1809-1882)

GABRIYELYAN, R. B., Doc of Bio Sci -- (diss) "Outlines on the history or

Darwinism and biological thoughts in Armenian literature of the XIX-XX

centuries."  Moscow, 1957, 49 pp (Moscow State University im Lomonosov),

150 copies  (KL, 30-57, 108)

GABRIYELYAN-BEKETOVSKAYA, E.A.

Development of quince cultivation in the Armenian S.S.R. Izv. AN Arm.
SSR. Biol. i sel'khoz. nauki 2 no.6:597-599 '49.        (MLRA 9:8)

1. Institut plodovodstva Akademii nauk Armyanskoy SSR.
   (ARMENIA—QUINCE)

GABRIYELAYAN-BRKTOVSKAYA, R.A.

Capability and incapability of self-fertilization in the quince.
Izv.AN Arm.SSR.Biol.i sel'khoz.nauki. 4 no.10:943-947 '51.
(MLRA 9:8)

1. Institut plodovodstva Akademii nauk Armyanskoy SSR.
(Armenia--Quince--Varieties)

GABRIYELIAN-BEKETOVSKAYA, Ye.A.

[Quinces of Armenia] Aiva Armianskoi SSR. Erevan, Izd-vo Glav.
upr. nauki M-va sel'.khoz.Arm.SSR, 1957.  200 p.   (MIRA 14:11)
(Armenia—Quince)

GABRIYELYANTS   G. A.

15-57-10-14468

Translation from:   Referativnyy zhurnal, Geologiya, 1957, Nr 10,
                    p 183 (USSR)

AUTHOR:        Gabriyelyants, G. A.

TITLE:         Explosions of Mud Volcanos in Azerbaydzhan (K izver-
               zheniyam gryazevykh vulkanov Azerbaydzhana)

PERIODICAL:    Sb. stud. rabot Azerb. industr. in-ta, 1956, Nr 2,
               pp 52-57

ABSTRACT:      Bibliographic entry
Card 1/1

GLINYANYY, Valeriy Georgiyevich; RZHEVSKIY, Georgiy Konstantinovich;
    GABRIYEL'YANTS, G.A., red.; BONDARENKO, M., red.; SALAKHUTDINOVA, A.,
    tekhn. red.

    [Producing inexpensive cotton with a high yield]Poluchenie vysokogo
    i deshevogo urozhaia khlopka; iz opyta raboty brigad kompleksnoi me-
    khanizatsii v kolkhozakh i sovkhozakh Uzbekistana.  Pod red. G.A.
    Gabriel'iantsa. Tashkent, Gos. izd-vo Uzbekskoi SSR, 1961.  104 p.
                                                        (MIRA 14:11)
                    (Uzbekistan--Cotton growing)

GABRIYEL'YANTS, G.A., glav. red.; AZIZKHANOV, D.A., red.; VENGERSKIY,
V.M., red.; YEREMENKO, V.Ye., red.; YERSHOVA, Ye.M., red.;
ZININ, T.G., red.; KOVYNEV, N.P., red.; RAKHMANKULOV, M.M.,
red.; SLIVKIN, LZ., red.; TIKHOMIROV, A.I., red.; YUNUSOV, F.Yu.,
Geroy Sotsialisticheskogo Truda, red.; AKBAROV, A., red.;
BAKHTIYAROV, A., tekhn. red.

[Materials of the Conference of Agricultural Workers of Central
Asia, Azerbaijan, and Southern Areas of Kazakhstan] Materialy
Soveshchaniya rabotnikov sel'skogo khozyaystva respublik
Sredney Azii, Azerbaidzhana i iuzhnykh oblastei Kazakhstana,
Tashkent, 1961. Tashkent, Gos. izd-vo Uzbekskoi SSR, 1962.
358 p.(Za rabotu, tovarishchi khlopkoroby!)    (MIRA 15:3)

1. Soveshchaniye rabotnikov sel'skogo khozyaystva respublik
Sredney Azii, Azerbaydzhana i yuzhnykh oblastey Kazakhstana,
Tashkent, 1961. 2. Predsedatel' kolkhoza imeni Karla Marksa
Oshskogo rayona Kirgizskoy SSR (for Yunusov).
            (Soviet Central Asia--Agricultural workers)
               (Azerbaijan--Agricultural workers)
                  (Kazakhstan--Agricultural workers)

GABRIYELYANTS, G.A.; BLISKAVKA, A.G.; MOROZOV, G.I.; KHUSNUTDINOV, Z.B.; KHADZHINUROV, N.; KOLODIY, V.V.

Zeagli-Darvaza gas field. Geol. nefti i gaza 6 no.11:28-30 N '62.
(MIRA 15:12)

1. Upravleniye geologii i okhrany nedr pri Sovete Ministrov Turk-menskoy SSR i Turkmenskiy filial Vsesoyuznogo neftegazovogo nauchno-issledovatel'skogo instituta.

GABRIYELYr. 'S, M. A.

Storage of smoked fish in an atmosphere of carbon dioxide. F. B. Kasatkin and M. A. Gabrielyants. *Rybnoe Khozyaistvo* 26, No. 7, 20-2(1950); *Chem. Zentr.* 1951, I, 2822. Expts., which are described in detail, showed that smoked fish stored at 0-3° and 80% relative humidity in an atm. of $CO_2$ kept about twice as long as fish exposed to the air. — M. G. Moore.

①

GABRIYELYANTS, M. A.

"Carbonic Acid Preservation of Refrigerated Meat." Sub 29 Jun 51, Moscow Inst of National Economy imeni G. V. Plekhanov

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

GABROVA, G.M.

B

Possibility of the Induction of Catalytic Contact by Metallo-organic Compounds. G. M. Gabrova, S. Z. Roginsky, and E. A. Yokina. *Reports of the Academy of Sciences of U.S.S.R.*, v. 52, no. 4, 1946, p. 315-318.

26

JERACISEK, L.

Problems of boiler plate manufacturing. p. 249. (ACTA TECHNICA, Vol. 5, no. 3/4, Sept. 1954. Ljubljana, Yugoslavia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 4, Apr 1957, Uncl.

GABROVSEK, Zdravko

Nuclear engineering; studies of the 3rd step of specialization.
Nuklear energija 1 no.1:28 Jl '64.

L 07239-67    EWT(m)    JK

ACC NR: AP6028410                    SOURCE CODE: YU/0020/66/000/001/0002/0010

AUTHOR: Bernot, N. (Graduate Engr.; Research Associate); Gabrovsek, Z.    33
(Graduate Engr.; Research Associate)                                       B

ORG: Nuclear Institute "Jozef Stefan", Ljubljana (Nuklearni Institut "Jozef Stefan")

TITLE: Building of the TRIGA reactor in Ljubljana

SOURCE: Nuklearna energija, no. 1, 1966, 2-10

TOPIC TAGS: research reactor, nuclear reactor technology, construction material,
technical assistance

ABSTRACT: The building of the research reactor TRIGA Mark II at Podgorica, 9 km north-
east of Ljubljana, is discussed. The reactor, designed and produced by the General
Dynamics Corporation was financed by the US Government and built jointly with several
Yugoslav subcontractors. Following a brief description of the reactor, the search
for a convenient location, the preparatory operations, and the establishment of the
financing program, the article discusses at length the numerous problems encountered
by the Yugoslav subcontractors during their work in this new field under conditions
of strict financial and production controls imposed by the main US contractor.
Separate sections deal with contract arrangements, new organizational experiences,
parts produced in Yugoslavia, the mounting of the reactor, the building of the bio-

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L 07239-67

ACC NR: AP6028410

logical shielding, the mounting of the auxiliary equipment of the reactor, the mount-
ing of the electronic and radiologic protection instrumentation, and the test running
of the reactor.  Orig. art. has:  1 table and 5 figures.

SUB CODE:  18/  SUBM DATE:  none

Card  2/2

BRESKOVSKA, V.; GABROVSKA, J.

Characteristics of vesuvianite of the western Rhodope mountain.
Godisnik blo. 57 no.1:205-216 '62-'63[pub. '64].

GABROVSKI, K.

Mathematics, an aid to the economist.   Hauka i tekh mladezh
15 no. 11: 1-3   N '63.

GABROVSKI, N.; KHRUMOV, G.

Atypical case of Raynaud's disease. Suvrem. med., Sofia 8 no.2:103-108
1957.

1. Iz Okoliiskata bolnitsa - Ikhtiman (Gl. lekar; K. Georgiev)
   (RAYNAUD'S DISEASE, case reports,
        atypical case (Bul))

GABROVSKI, N.; TAIAKOV, A.; SIVCHEV, S.

Case of Pierre-Marie-Bamberger disease. Suvrem. med., Sofia 9 no.7:
98-102 1958.

1. Iz Okoliiskata obedinena bolnitsa gr. Ikhtman (Gl. lekar: K. Georgiev)
i Katedrata po patologoanatomiia pri VMI - Sofiia (Zav. katedrata: prof.
B. Kurdzhiev)
         (OSTEOARTHROPATHY, HYPERTROPHIC PULMONARY, case reports,
              (Bul))

GABRUSENKO, A.V., inzhener.

Grounding forks for 6-10 kv disconnectors having mechanical blocking.
Energetik 5 no.8:24-25 Ag '57.    (MIRA 10:10)
(Energetic switchgear)

GABRUSENKO, A.V.

Transformer for burning through the place of fault in a cable with
a sealed breakdown. Energ.biul. no.10:27-28 O '57.     (MIRA 10:10)
(Electric cables)

AUTHOR:      Gabrusenko, A.V., Engineer               SOV-91-58-9-20/29

TITLE:       A Transformer for Burning Through a Cable at the Point of
             Damage When the Puncture is Self-closing (Transformator
             dlya prozhiganiya mesta povrezhdeniya kabelya pri zaplyva-
             yushchem proboye)

PERIODICAL:  Energetik, 1958, Nr 9, pp 28-30  (USSR)

ABSTRACT:    A portable power transformer of 20 to 50 kva for burning
             through both high and low tension cables is needed in most
             grid regions.  Engineer A.A. Krylov worked out a system
             with a TM 50/6 power transformer which is, however, cumber-
             some and lacks a range of selectable voltages.  Technician
             D.N. Ostapenko worked out a new system based on a single-
             phase transformer which has 32 alternative high tension
             voltages from 0.6 to 9 kv and current from 24-3 amp.  Pri-
             mary voltage is 380 or 220 v.  The input is 20 to 25 kva.
             The author describes the system used in his grid region,
             based on Ostapenko's scheme. A TM 50/6 transformer was used,
             two phases of the winding removed, part of the yoke dismantled
             and the oil-cooling tank replaced by a casing without oil
             but with air vents.  By these changes, the weight of the

Card 1/2

ACCESSION NR:   AR4028480

S/0275/64/000/002/V033/V033

SOURCE:   Referativny*y zhurnal.  Elektronika i yeye primeneniye.
Svodny*y tom, Abs. 2V199

AUTHOR:   Gabrusenko, I. A.

TITLE:   High voltage stabilizer

CITED SOURCE:   Izv. Tomskogo politekhn. in-ta, v. 122, 1962, 142-144

TOPIC TAGS:   stabilizer, high voltage stabilizer, electronic sta-
bilizer, electron beam investigation, electrostatic deflection
method, drift stability, voltage stability, null drift, differen-
tial stabilizer

TRANSLATION:   The electronic stabilizer, with 9--16 kV output
voltage and current up to 100 µA, is intended for the investigation
of an electron beam with 250 kV energy by the electrostatic deflec-

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ACCESSION NR:   AR4028480

tion method.  The stabilizer circuit employs a parallel-connected
regulating tube, which is a GMI-83 pulsed tetrode.  The three-stage
dc amplifier with a gain of 10000 uses three tubes in a differential
circuit.  This ensures a null drift $\leq$ 1 mV.  The output voltage is
maintained stable within $5 \times 10^{-5}$ in 8 hours of continuous operation.
The transient time in pulse measurements of the load current does
not exceed $3 \times 10^{-3}$ sec.  R. N.

DATE ACQ:  31Mar64          SUB CODE:  SD                ENCL:  00

Card   2/2

ACCESSION NR: AT4045160                 S/2531/64/000/156/0128/0130

AUTHOR: Gabrusenok, P. S.

TITLE: Composition of glue for low-inertia electrolytic atmospheric humidity sensors

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy*, no. 156, 1964. Voprosy* fiziki oblakov i aktivny*kh vozdeystviy (Problems of the physics of clouds and active particles), 123-130

TOPIC TAGS: meteorology, meteorological instrument, humidity, sensing element, atmospheric humidity, glue, moisture sensitive film

ABSTRACT: The article presents a listing of the ingredients to be used in the preparation of a moisture-sensitive film for use with electrolytic air humidity sensors. The films used in the past have been soluble in water and subject to deformation; this has been remedied by the use of a binder which is insoluble in water. Since tars, celluloid, and other water-insoluble substances were found unsuitable, the author proposes that such a binder be prepared using the following: gelatin (0.56 g), ammonium dichromate (0.4 g), lithium chloride (saturated solution at 20C) (2 ml), ethyl alcohol (100 ml) and water (120 ml). The film forming from this mixture, after ultraviolet irradiation, becomes insoluble in water and yet retains a sufficiently high vapor permeability. This made possible a significant increase in

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ACCESSION NR: AT4045160

the resistance of low-inertia electrolytic sensors to high air humidity, their stability and lifetime. The base of the sensor itself is made of a plastic whose surface prior to application of the film is polished and degreased carefully. The sensor is irradiated with UV light for 5 minutes after application of the moisture-sensitive layer. Fig. 1a of the Enclosure shows that the inertia of such a sensor, when measuring high humidity, is an extremely insignificant value (0.3-0.5 seconds), Fig. 1b of the Enclosure shows the characteristic curve of this same sensor after a 30-minute exposure in saturated water vapor. Comparison of the curves shows that the exposure of the sensor under conditions ruinous for ordinary electrolytic sensors has relatively little effect on the sensitivity and inertia of this electrolytic sensor. Orig. art. has: 2 figures.

ASSOCIATION:Glavnaya geofizicheskaya observatoriya, Leningrad (Main Geophysical Observatory)

SUBMITTED: 00                     ENCL: 02                     SUB CODE: MT, ES

NO REF SOV: 003                   OTHER: 000
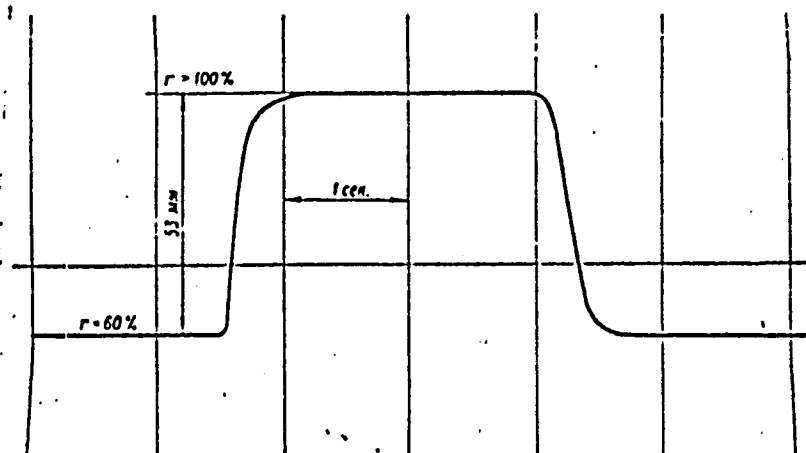
Card 2/4

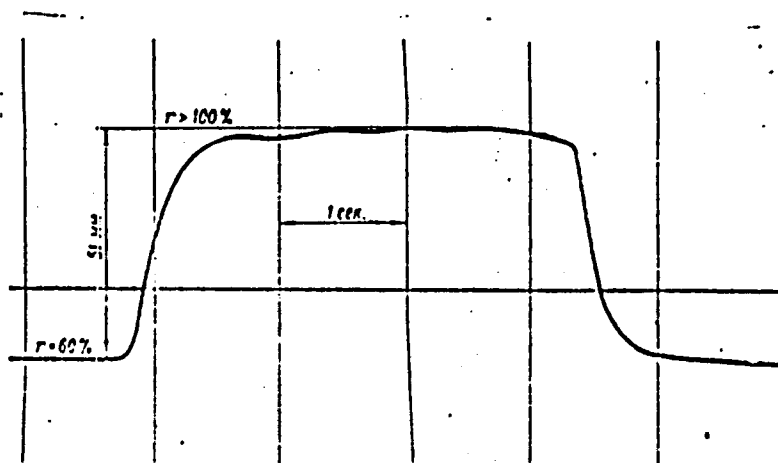Fig. 1a – Inertia characteristic curve (sensor No. 3).

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Fig. 1b – Inertia characteristic curve of sensor No. 3 after a 30-minute exposure in saturated water vapor.

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L 24211-65    EWT(m)/EPF(c)/EPF(n)-2/EPR    Pr-4/Ps-4/Pu-4    DM

ACCESSION NR: AP5001266                    S/0089/64/017/006/0448/0452

AUTHOR: Sinev, N. M.; Krasin, A. K.; Bychkov, L. F.; Blokhin, O. L.;
Broder, D. L.; Gabrusev, V. N.; Dudnikov, Yu. V.; Zhil'tsov, V. A.; Koptev,
M. A.; Kotov, A. P.; Lantsov, M. N.; Lisochkin, G. A.; Merzlikin, G. A.;
Morozov, L. G.; Komarov, A. Ya. (deceased); Orokhov, Yu. I.; Sergeyev, Yu. A.;
Slyusarev, P. N.; Ushakov, G. N.; Fedorov, N. V.; Chernyy, V. Ya.; Shmelev,
V. M.

TITLE: Small-size atomic electric power installation TES-3

SOURCE: Atomnaya energiya, v. 17, no. 6, 1964, 448-452

TOPIC TAGS: small atomic power installation, portable atomic power installa-
tion, nuclear reactor,       electric power generation/TES-3 reactor

ABSTRACT: The paper is a summary of the SSSR report #310 at the Third Inter-
national Conference on Peaceful Uses of Atomic Energy in Geneva, 1964. It
describes a movable small-size atomic electric power installation with the water
cooled and moderated TES-3 reactor (under 10,000 kw). It consists of four

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L 24211-65
ACCESSION NR: AP5001266

blocks each of which was assembled at the manufacturing plant, and which are
placed on four self-propelled flatcars on caterpillar tracks. No housing is re-
quired for the installation; the only local preparation needed is the radiation
protection. The results with a demonstration model show a satisfactory agree-
ment between the theoretically expected and actually obtained parameters of the
installation. Orig. art. has: 4 figures

ASSOCIATION: None

SUBMITTED: 00                ENCL: 00                SUB CODE: NP

NR REF SOV: 000              OTHER: 000

Card 2/2

GABRYEL, B.

GABRYEL, B.  Let us build drinking places for birds in the forests.  p. 10.


Vol. 29, no. 11, Nov. 1955
LAS POLSKI
AGRICULTURE
Poland

So:  East European Accession, Vol. 6, No. 5, May 1957

GABRYEL, B.; Capecki, Z.


Rodent animals threaten our forests.  p. $\sqrt{2}$ of cover.


LAS POLASKI.. (Ministerstwo Lesnictwa oraz Stowarzyszenie Naukowo-Techniczne Inzynierow i. Technikow Lesnictwa i Drzewnictwa) Warszawa, Poland.  Vol. 32, no. 10, May 1958.


Monthly List of East European Accession (EEAI) LC, Vol. 9, no. 1, Jan. 1960. Uncl.

GABRYEL, B.


Insects as food for birds.  p. 14.


LAS POLSKI.  (Ministerstwo Lesnictwa oraz Stowarzyszenie Naukowo-Techniczne Inzynierow i Technikow Lesnictwa i Drzewnictwa)  Warszawa, Poland, Vol. 32, no. 13/14, July 1958.


Monthly List of East European Accession (EEAI) LC, Vol. 9, no. 1, Jan. 1960


Ucnl.

GRUSZCZYNSKA, M.; GABRYEL, P.

Severe course of Wasiljew-Weil's disease with lesions of the sympa-
thetic nervous system. Polski tygod.lek. 10 no.17:553-555 25 Apr 55.

1. Z Oidzialu Zakaznego Szpitala Miejskiego w Paznaniu; kierownik;
dr med. J.Zachradnik i z Zaklaud Anatomii Patologiczne¡ A.M. w
Poznaniu;kierownik;prof.dr med. J.Groniowski.
        (WEIL'S DISEASE, complications,
            sympath. nerv. system lesion, diag.)
        (SYMPATHETIC NERVOUS SYSTEM, in various diseases,
            Weil's dis., diag.)

$GABRYEL, P.$

POLAND/General Problems of Pathology - Comparative Oncology.     U-3
              Tumors of Man.

Abs Jour    :  Ref Zhur - Biol., No 16, 1958, 75540

Author      :  Gabryel, Przemyslaw; Niedzielska, Danuta
Inst        :
Title       :  Rare Primary Tumor of the Heart - Angioreticuloma.

Orig Pub    :  Patol. polska, 1956, 7, No 1, 37-39.

Abstract    :  A 46-year-old patient, who complained for a year of oppres-
               sion behind the sternum, died of increasing cardiac insuf-
               ficiency. Autopsy disclosed a tumor of the left atrium,
               which, by pathological examination, proved to be an angio-
               reticuloma (the tumor contained vascular as well as reticu-
               lar tissue).

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BAOLENIA MEDICA Soc 5 Vol. 10/10 Pathology Oct 57

2942. GRONIOWSKI J., GABRYEL P. and GREMBOWICZ L. Zakł. Anat. Patol. A. M., Poznań. * Badania zespołu błon szklistych płuc noworodka. I. Badania morfologiczne. Investigations on the hyaline membrane syndrome in newborns. I.Morphological study PATOL. POL. 1957, 8/1 (13-22) Tables 1 Illus. 7

Among 250 non-selected postmortem studies on newborns, the syndrome of hyaline membranes was observed 52 times. The authors include in this syndrome: atelectasis, extensive hyperaemia and the existence of hyaline membranes. Conclusions: (1) Hyaline membranes form on the place where they are found; they do not come from aspirated amniotic fluids. The material of which the membranes are formed originates from

the capillaries, which present pathological permeability. (2) The process of development of the membranes is as follows: (a) initial period - formation of the membranes, (b) complete development of the syndrome, and (c) final period - elemination of the membranes. During the final period, the hyaline membranes are detached from the underlying tissue and divide into fragments. The detachment of the membranes is accompanied by an inflammatory process. These different periods are not strictly demarcated: fairly often all the stages of development of the hyaline membranes are observed in the same fragment. Death may occur during each of these periods, even during the initial period. Attention is drawn to the correlation between the syndrome of hyaline membranes and pulmonary inflammations. During the period of complete development of the syndrome of hyaline membranes, the changes observed in the walls of the respiratory tract have the character of interstitial pneumonia. During the final period, alveolar pneumonia develops if death has not occurred earlier. Consequently, it may be concluded that the hyaline membrane syndrome has to be understood on the basis of the mechanism of inflammation.

Karlinska - Warsaw (V, 7, 15*)

GABRYEL, P.

601.  INVESTIGATIONS ON THE HYALINE MEMBRANE SYNDROME IN NEW-
      BORNS. II. MICROFLUOROSCOPIC STUDY - Badania zespolu blon szklis-
      tych pluc noworodka. II. Badania zespolu blon szklistych w mickroskopii fluo-
      rescencyjnej - Groniowski J., Gabryel P. and Grembowicz L.
      Zakl. Anat. Patol. A.M., Poznań - PATOL. POL. 1957, 8/1 (23-30) Tables 1
      Illus. 3

Forty-seven cases were examined. The hyaline membranes, as well as the con-
nective tissue, have their own fluorescence: a very weak yellow-blue. The mem-
branes are readily stained by the acridine containing dyes, rhodamine O and thia-
zoles. In the researches on the morphology of hyaline membranes and neighbouring
tissues, a whole series of combined staining methods was applied. These included
2 personal methods which were much simpler and quicker than those employed so
far. The microfluoroscopical examination fully confirmed all results previously ob-
tained. This method deserves greater attention than those used at present.

                                                    Karlinska - Warsaw (V,7,15)

GRONIOWSKI, Janusz; GABRYEL, Przemyslaw

Morphological studies on chick embryos from eggs inoculated with
the serum from patients with infectious jaundice. Poznan.tow.
przyjaciol nauk, wyds.lek. 18 no.2/1:49-58 '59.
(HEPATITIS INFECTIOUS virol.)

GRONIOWSKI, Janusz; GABRYEL, Przemyslaw

Morphological studies on chick embryos with special reference to
the effect of postmortem changes on tissue picture. Poznan.Tow.
przyjaciol nauk, wydz.lek. 18 no.2/1:17-46 '60.
        (HEPATITIS INFECTIOUS virol.)

GABRYEL, Przemyslaw

Histopathological diagnosis of actinomycosis with special reference to the fluorescence method. Poznan. tow. przyjac. nauk. wyd. lek. 22 no.4:1-35 '61.

(ACTINOMYCOSIS diag)

GABRYEL, WIKTOR                                    Poland        CA: 47:12081

with ALFONS KRAUSE and BOGUSLAW BORKOWSKI

Univ. Poznan, Poland

"Benzidine reaction of amorphous ferric hydroxides and their dehydration products."

Roczniki Chem. 25, 287-96 (1951) (English summary); cf. C.A. 46, 5654c.

GABRYELEWICZ, A.

Clinical aspects & treatment of poisoning by ethylated benzine. Polski
tygod. lek. 13 no.51:2065-2067 22 Dec 58.

1. (Z II Klin. Chor. Wewn. A.M. im. J. Marchlewskiego w Bialymstoku;
Kierownik; prof. dr med. J. Chlebowski).
        (PETROLEUM PRODUCTS, pois.
            ethylated benzine pois., clin. aspects & ther. (Pol))

ROSTAFINSKA, J.; TOLLOCZKO, A.; GABRYELEWICZ, A.

Atypical multiple myeloma. Polskie arch. med. wewn. 29 no.2:278-281
1959.

1. Z II Kliniki Chorob Wewnetrznych A. M. w Bialymstoku Kierownik:
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